

NOTE: Sometimes it is difficult to distinguish this species from *Viburnum lentago*.

8. **Viburnum lantana* L.

Wayfaring-tree

Adventive (native of Eurasia)

Shrub, upper internodes densely stellate-pubescent; leaves oblong-ovate, unlobed; blades rounded to cordate at base, pinnately veined, gray-tomentose stellate-pubescent beneath; margins singly serrate with teeth terminating in stout hyaline tips; corolla white; fruits red, becoming black.

REFERENCE: Cooperrider 1995:554.

HERBARIUM RECORD: 17 Jul 1971—W of Olentangy River Rd., ca. ½ mi. N of Henderson Rd., in *Prunus serotina* woods, Clinton Twp., Roberts 1343.

6. SAMBUCUS L. Elderberry

Shrubs with large pith; leaves pinnately compound, stipules and stipels often present, leaflets serrate; calyx minute or rudimentary; corolla rotate, shallowly cup-shaped, regular, white; ovary 3-5-loculed; style very short; drupe juicy.

1. *Sambucus canadensis* L.

Common Elder, Elderberry

Shrub, pith white; leaves pinnately compound, leaflets 5-11, sessile; inflorescence usually wider than high, with 5 main rays from base; flowers numerous, tiny; corolla white; fruits purple-black at maturity, edible.

REFERENCES: Riddell 1834:156; Sullivant 1840:29; Craig 1890:82 (common along the river and on the hillside S of horticultural hall, 22 Jun 1882, 11 Jun 1883, 10 Jun 1887, 6 Jun 1888, 22 Jun 1889); Selby & Craig 1890:10; Braun 1961:336 (illus. p. 334); Cooperrider 1995:562 (illus. p. 561).
HERBARIUM RECORDS: 26 Jul 1882—University campus, *W. Green*; 1888—OSU farm, Cols., *Craig*; 1888—Cols., *Craig*; 2 Jul 1892—Cols., *Bogue*; 30 May 1896—Reservoir Park, *M. Wright*; 1 Aug 1911—Westerville, fencerows, *Hanawalt*; Summer 1938—OSU Botanical Garden, *C. Jones*; [ca. 1982]—Blendon Woods, *Owens*; 21 Jul 1986—Highbanks Metro Park (Franklin Co.), *Kosko*; 11 Jun 1987—Tuttle Park, E bank of the Olentangy River, between Lane Ave. & Dodridge St. bridges, margins of woods on floodplain, *T. Lammers 6120*; 5 Aug 1989—along Godown Rd., between Commerce Pl. & Le Anne Marie Circle, Perry Twp., *Lowden 4254*; 23 Jun 1991—E bank of Scioto River, between Lane Rd. & Lane Ave., Perry Twp., *Lowden 4714*.

VALERIANACEAE, Valerian Family

Herbs; leaves opposite; flowers small, clustered, epigynous, bisporangiate or monosporangiate; calyx minute or expanding late and appearing pappuslike on the fruit; corolla tubular or funnellform, not quite regular, 5-lobed; stamens usually 3 (1-5), on corolla tube; carpels 3, united; style 1; stigma 1 or 2-3-branched; ovary 3-loculed, one locule containing 1 ovule, the other 2 empty or failing to develop; fruit indehiscent, dry.

- a Leaves, or some of them, pinnately divided or pinnately compound; fruit 1-loculed, 1-seeded; calyx in fruit a circle of plumose bristles. 1. VALERIANA
- a' Leaves simple, blades entire or somewhat toothed; fruit 3-loculed, only 1 locule containing a seed; calyx minute or absent. 2. VALERIANELLA

1. VALERIANA L. Valerian

Cauline leaves pinnately compound or pinnately divided; flowers densely clustered, sometimes monosporangiate; calyx minute at anthesis; corolla usually gibbous at base, white or pink; calyx pappuslike in fruit, of several plumose bristles.

- a Corolla tube 1 cm long or more, slender; basal leaves cordate-ovate, simple or with 1 pair of leaflets; cauline leaves of 3-7 ovate leaflets. 1. *V. pauciflora*
- a' Corolla tube 5 mm long or less; basal blades entire or, like the cauline, pinnately divided into lanceolate or linear segments.
 - b Both basal and cauline blades pinnately divided into several to many segments that are reticulate-veined. 2. *V. officinalis*
 - b' Basal blades linear-oblongate, entire or with 1 or 2 divisions, nearly parallel-veined, thick; cauline blades with a few pinnate divisions. 3. *V. edulis*

1. *Valeriana pauciflora* Michx.

Large-flowered Valerian

Plants arising from stolons or rhizomes; leaves mostly cauline, opposite, pinnately lobed or pinnately compound, leaflets 3-5, terminal leaflet ovate; flowers in a terminal cyme; corolla pink-purple, approx. 13-18 mm long.

REFERENCES: Riddell 1834:155 (dense and shady woods); Sullivant 1840:34; Selby & Craig 1890:11; Cooperrider 1995:564 (illus. p. 565).

HERBARIUM RECORDS: 1834—Worthington, *J. Paddock Collection* (ILL); 30 May 1888—Neil's Woods, Cols., *Selby*; Jun 1888—Cols., *Craig*; 31 May 1891—near Cols., *Bogue*; 18 Jul 1891—Big Darby R., *Selby*; 25 May 1892—Cols., *W. Beattie*; 22 May 1899—Big Darby, Cols., *Selby*; 20 May 1902—Big Darby, *W. Kellerman*; May 1921—Westerville, damp lowland along Alum Creek, *J. Wilson*; 4 Jun 1923—Westerville, moist woods, *Gressman*; 23 May 1936—Franklin Co., *Krumm*; 23 May 1986—Highbanks Metro Park (Delaware Co.), floodplain, *Watts 311* (OS, OWU).

2. **Valeriana officinalis* L.

Garden-heliotrope

Cultivated Escape (native of Eurasia)

Stems stout, pubescent at nodes; cauline leaves divided into lanceolate dentate segments, reticulate-veined, not densely ciliate; panicle open; corolla tube about 4 mm long, lobes about 1 mm long.

HERBARIUM RECORD: 29 May 1922—Westerville, in shade, scarce, *Horlacher*.

NOTE: Not mapped for Franklin Co. by Cooperrider 1995:566 (illus. p. 565).

3. †*Valeriana edulis* Nutt.

Prairie Valerian

Herbs arising from a taproot; basal leaf blades linear-oblongate, entire or lobed; cauline blades pinnately divided; flowers borne in a paniculate cyme; corolla white, tiny, approx. 2 mm long. Syn.: *V. ciliata* Torr. & A.Gray, *V. edulis* Nutt. var. *ciliata* (Torr. & A.Gray) Cronquist

REFERENCE: Meyer 1951:428.

HERBARIUM RECORD: 1840—Cols., *Sullivant*.

NOTE: Sullivant 1840:34, 59 (*Valeriana* species nov.; a new and unpublished species of *Valeriana*; found as I am informed by Mr. Samples, lately of Urbana, in the Cedar swamp, 6 mi. S of that place). Not mapped for Franklin Co. by Cooperrider 1995:564 (illus. p. 565).

2. VALERIANELLA Mill. Corn Salad

Stems dichotomously branched; leaves sessile, entire or somewhat toothed near base; flowers small, bracted; corolla almost regular, white or blue; stamens exserted; ovary 3-loculed, only 1 containing an ovule.

a Corolla pale blue; seed containing carpel with a thick corky mass on back. 1. *V. locusta*

a' Corolla white; seed containing carpel without a corky mass.

b Fruit sharply triangular in cross section; seed-containing carpel twice as wide as the 2 empty ones together, empty ones barely separated by a short pit near the center, but no groove between. 2. *V. chenopodifolia*

b' Fruit not sharply triangular in cross section; seed-containing carpel much narrower to slightly wider than the 2 empty ones together, empty ones separated by a groove or pit.

c Corolla 1.5-2 mm long, lobes 0.4-0.8 mm long. 3. *V. radiata*

c' Corolla 3-5 mm long, lobes 1-2 mm. 4. *V. umbilicata*

1. **Valerianella locusta* (L.) Betsche

European Corn-salad, Lamb's-lettuce

Naturalized locally (native of Europe)

Syn.: *V. olitoria* (L.) Pollich

REFERENCE: Cooperrider 1995:566 (illus. p. 567).

NOTE: No specimens seen from Franklin Co.

2. *Valerianella chenopodifolia* (Pursh) DC.

Goosefoot Corn-salad

Herbaceous; leaves simple, unlobed, margin entire, sometimes toothed; bracts of inflorescence glabrous, without cilia; corolla white; fruits 3-4 mm long, triangular, seed-containing carpel twice as wide as the 2 empty ones.

REFERENCES: Eggers-Ware 1970:208; Cooperrider 1995:568 (illus. p. 567).

HERBARIUM RECORDS: 1840—Cols., *Sullivant*; 6 May 1892—Georgesville, *Werner*; 12 May 1894—Georgesville, *W. Kellerman*; 19 May 1967—E bank of Scioto R., abundant, on broken limestone rocky slope, approx. ½ mi. S of Dublin, *Stuckey 3778*; 2 May 1981—Battelle-Big Darby Creek Metro Park, common along foot-paths, *Tomko 23*.

3. **Valerianella radiata* (L.) DuRoi

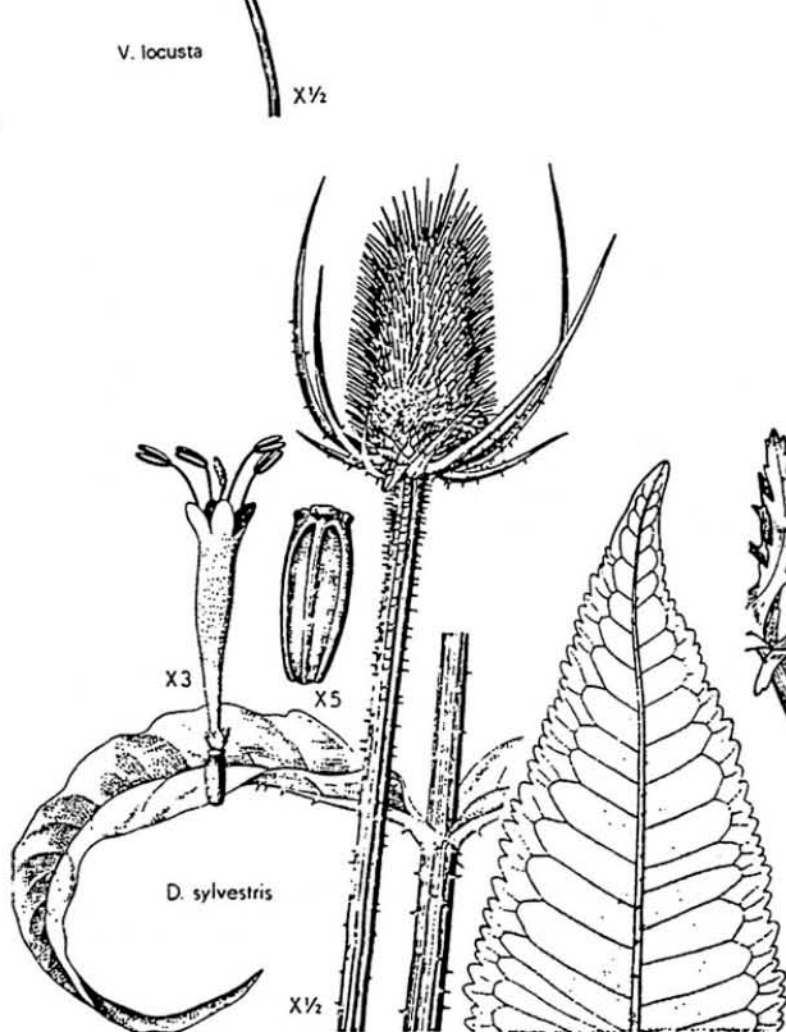
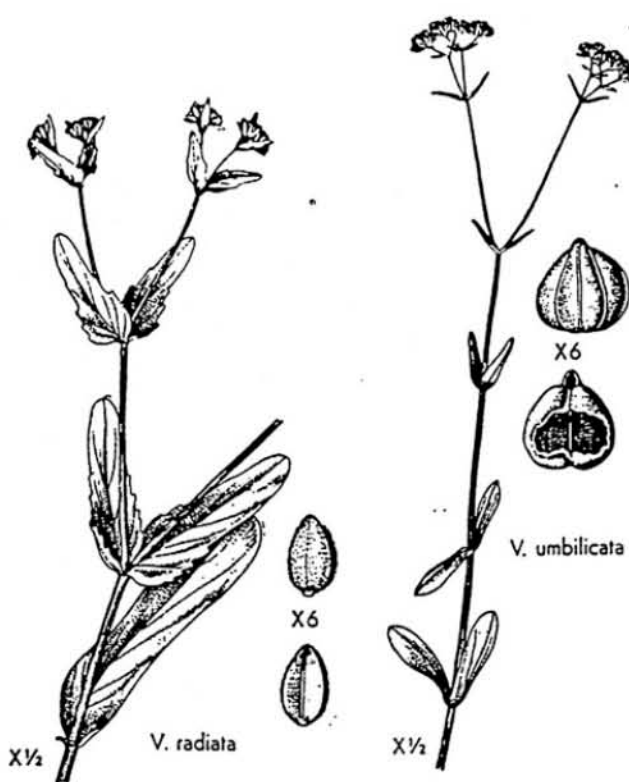
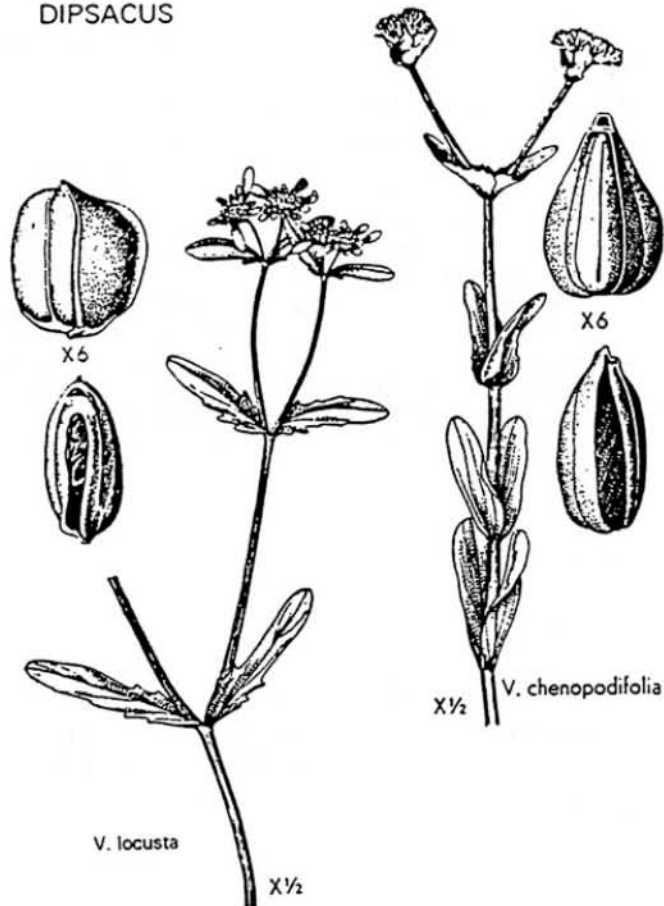
Corn Salad

Adventive (of more southerly states)

Outer inflorescence bracts spinulose-ciliate, inner bracts glabrous.

REFERENCES: Riddell 1834:155 (meadows &c. [and cult.]); Sullivant 1840:34; Selby & Craig 1890:11; Eggers-Ware 1970:194; Cooperrider 1995:566.

VALERIANELLA
DIPSACUS



HERBARIUM RECORDS: 19 May 1901—W of Cols., *Stiver*; 19 May 1990—E bank of Blacklick Creek, just S of intersection of Blacklick Creek with Morse Rd., Jefferson Twp., *Lowden 4317*.

4. †*Valerianella umbilicata* (Sull.) A.W.Wood

Beaked Corn-salad

Herbaceous; leaves simple, unlobed; margins entire, sometimes toothed; bracts of inflorescence glabrous, without cilia; corolla white; fruits 2-3 mm long, somewhat square in cross section, seed-containing carpel slightly wider than the 2 empty ones, separated by a shallow groove. Syn.: *V. intermedia* Dyal, *V. woodsiana* (Torr. & A.Gray) Walp.

REFERENCES: Sullivant 1842:50 (*Fedia umbilicata* Sull.; Type locality, [moist ground] around Cols., [Sullivant]); Sullivant in Gray 1848:183 (*Fedia patellaria* Sull. in A.Gray; Type locality, low ground, Cols., Sullivant); Craig 1890:83 (*Valerianella woodsiana* Walp. var. *umbilicata* A.Gray, abundant in the low marshy ground W of the lake and there is a small patch on the island, 23 May 1882, 24 May 1883, 21 May 1884, 15 May 1887); Selby & Craig 1890:11 (#334 & 335, *Valerianella woodsiana* Walp. var. *umbilicata* A.Gray & *Valerianella woodsiana* Walp. var. *patellaria* A.Gray); Jones 1943:107; Eggers-Ware 1970:210-212 (recognizes 3 forms in Franklin Co.); Cooperrider 1995:568 (illus. p. 567).

HERBARIUM RECORDS: Jun 1888—Cols., *Craig*; 8 Jul 1891—Big Darby, *Selby*; 21 May 1892—Cols., *W. McCormick*; Jun 1892—Cols., *Addison*; 24 Jun 1892—Cols., *Bogue*; 30 May 1895—N Cols., *Osburn*; 19 May 1896—W Cols., *M. Wright*; 190—Cols., *E. M. Wilcox*; 4 Jun 1931—Westerville, *Hicks*; 27 May 1968—along Trabue Rd., across from golf course parking lot, *R. Johnson*; 18 May 1980—OSU campus, Neil Ave., Cols., *H. Liu 2214*; 18 May 1986—Antrim Park, NW side of lake along bike path, *R. Burnes 27*; 22 May 1988—E bank of Olentangy R., 100 feet S of Dodridge St., Cols., *Kelly 20*; 22 May 1990—Elliot Rd., 1 mi. S of Hayden Run Rd., Brown Twp., *Lowden 4328*; 23 May 1990—N side of Central College Rd., ¼ mi. W of Franklin/Licking Co. Line, Plain Twp., *Lowden 4334*; 30 May 1990—Ropath Rd., S of Zuber Rd., approx. 1 mi. from county line, Jackson Twp., *Lowden 4352*.

DIPSACACEAE, Teasel Family

1. DIPSACUS L. Teasel

Tall erect herb; stem prickly; blades prickly on midvein beneath, basal ones oblanceolate, crenate, cauline ones lanceolate, entire, sessile or connate-perfoliate; flowers epigynous, perfect, in peduncled dense ovoid or cylindrical clusters subtended by an involucre of rigid prickly bracts; rigid bractlets among the flowers longer than the flowers; calyx about 1 mm long, silky; corolla pale purple, not quite regular, tubular, with 4 short lobes; stamens 4, inserted on corolla; carpels 2, only 1 developing; locule and ovule 1; fruit an achene.

a Stem-leaves entire or prickly-margined. 1. *D. sylvestris*

a' Stem-leaves pinnately lobed or divided. 2. *D. laciniatus*

1. **Dipsacus sylvestris* Huds.

Common or Wild Teasel

Naturalized (native of Europe)

Stems prickly; leaves opposite, sessile, often connate-perfoliate; margins crenate-dentate, unlobed; flowers borne in many flowered heads; involucre bracts curved upward, longest one longer than inflorescence, bracts terminated by a straight spine; corolla pink-purple. Incl. *D. fullonum* L.

REFERENCES: Riddell 1834:154 (bottomland); Sullivant 1840:34 (naturalized plants); Craig 1890:53, 83 (abundant on the hillside S of the Lake, where pure white specimens are occasionally found, 20 Jul 1882, 24 Jul 1887, 9 Jul 1888, University Farm Sep 1887); Selby & Craig 1890:11 (introduced); Cooperrider 1995:569 (illus. p. 570).

HERBARIUM RECORDS: 11 Jul 1898—Cols., *J. H. Schaffner*; 18 Jul 1899—Bot. Gar., Cols., *W. Kellerman*; 10 Sep 1901—Cols., *Tyler & Jennings*; 20 Aug 1911—Westerville, woods & fencerows, *Hanawalt*; 15 Aug 1982—Blendon Woods, *Owens*; 16 Jul 1986—Highbanks Metro Park (Delaware Co.), field, *Watts* (OS, OWU); 4 Aug 1989—along Rt. 71, W of Harrisburg, N of the Franklin/Pickaway Co. line, Pleasant Twp., *Lowden 4229*; 1 Aug 1990—Delawanda Park E of the Olentangy R., behind Graceland Shopping Center, Sharon Twp., *Lowden 4479*.

2. **Dipsacus laciniatus* L.

Cup-leaf Teasel

Naturalized (native of Europe)

Stem-leaves irregularly pinnately lobed or divided, bristly-ciliate.

HERBARIUM RECORD: 3 Sep 1992—N side of Rt. 161 just E of Blacklick Creek, occasional on weedy roadbank, Plain Twp., New Albany Quad., *McCormac 4885*.

NOTE: Not mapped for Franklin Co. by Cooperrider 1995:571 (illus. p. 570).

ASTERACEAE, Aster Family

Herbs; rarely dioecious; leaves alternate, opposite, or whorled; flowers bisporangiate, monosporangiate, or neutral, epigynous, in dense heads on a common receptacle surrounded by an involucre of bracts (phyllaries); pappus in